



Regione Toscana

GIOVANI SI

PHD PROGRAMME IN COMPUTER SCIENCE
ACADEMIC YEAR 2025/2026 (41ST CYCLE)
partnered with university of Florence and university of Siena

Coordinator professor *Antonio Brogi*

Department: Informatica
(<https://di.unipi.it/>)

COMPETITIONS

IMPORTANT: At the end of the selection process, additional PhD grants may be made available, by scrolling down the ranked list, if additional fundings become available within two months from the start date of the PhD activities. Any such increase in the number of PhD grants will be formalized through Rector's decrees published at <https://www.unipi.it/bando2025-26/>.

PhD positions with grant No. 15

INFO_01	Outcome of the selection procedure: Single ranking list		
	PhD positions: No. 3 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	University of Pisa	
	1	University of Florence	
	1	University of Siena	
INFO_02	Outcome of the selection procedure: Ranking list for grants with specific eligibility requirements, related to doctoral projects funded by external institutions (Art. 8, para. 2, letter d) of the University Regulations on doctoral programmes)		
	PhD positions: No. 3 of which		
	No.	Financing institution	Research project / subject (optional)

	PhD Grants	
	2	Regione Toscana – funded thorough PR FSE 2021/27 within the framework of Giovanisi (www.giovanisi.it), the project of the Tuscany Region for youth empowerment, “Pegaso” PhD grants (CUP I51J25000070006) - require a study and research stay-abroad period of at least 6 (six) months;
	1	Regione Toscana – funded thorough PR FSE 2021/27 within the framework of Giovanisi (www.giovanisi.it), the project of the Tuscany Region for youth empowerment, “Pegaso” PhD grants (CUP I51J25000070006) - require a study and research stay-abroad period of at least 12 (twelve) months (for recipients of an “International grant”);
INFO_03	Outcome of the selection procedure: Single ranking list for research project	
	PhD positions: No. 1 of which	
	No.	Financing institution
	Research project / subject (optional)	
	PhD Grants	
	1	Regione Toscana – funded thorough PR FSE 2021/27 within the framework of Giovanisi (www.giovanisi.it), the project of the Tuscany Region for youth empowerment, “Pegaso” PhD grants (CUP I51J25000070006) - require a training / research experience of at least 3 (three) months in an applied context (e.g. company, public research institutions, or other non-university institution)
	Artificial intelligence and machine learning for health	
INFO_04	Outcome of the selection procedure: Single ranking list for research project	
	PhD positions: No. 1 of which	
	No.	Financing institution
	Research project / subject (optional)	
	PhD Grants	
	1	Regione Toscana – funded thorough PR FSE 2021/27 within the framework of Giovanisi (www.giovanisi.it), the project of the Tuscany Region for youth empowerment, “Pegaso” PhD grants (CUP I51J25000070006) - require a training / research experience of at least 3 (three) months in an applied context (e.g. company, public research institutions, or other non-university institution)
	Development and management of IT systems and environmental sustainability	
INFO_05	Outcome of the selection procedure: Single ranking list for research project	
	PhD positions: No. 1	
	No.	Financing institution
	Research project / subject (optional)	
	PhD Grants	

	1	Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo" ISTI CNR	Decentralized Learning at the Edge
INFO_06	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo" ISTI CNR	<i>Intelligent User Interfaces</i>
INFO_07	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	Department of Informatica of the University of Pisa and Department of di Ingegneria dell'Energia, dei Sistemi, del Territorio e delle Costruzioni of University of Pisa	Algorithms for the optimization of large-scale energy systems
INFO_08	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	Consorzio METIS	Edge computing infrastructure design and smart building management tools
INFO_09	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	Consorzio FABRE	AI techniques for defect recognition and predictive maintenance in transportation infrastructure
INFO_10	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		

	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	M.A.I.O.R. S.r.l.	Artificial intelligence for the optimization of public transportation systems
INFO_11	Outcome of the selection procedure: Single ranking list for research project		
	PhD positions: No. 1 of which		
	No.	Financing institution	Research project / subject (optional)
	PhD Grants		
	1	Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo" ISTI CNR	<i>Smart Dynamic Support for Parallel and Distributed Computing in the Continuum</i>

N.B. With reference to all the above-mentioned selections, candidates who, by the application deadline, hold a permanent or fixed-term employment contract with a public institution with a duration at least equal to that of the PhD programme, can choose whether:

1. apply as a public employee, thereby automatically renouncing the PhD grant;
2. apply for a position with PhD grant, without declaring their status as public employee during the online application process;

In the first case, public candidates are required to declare their status during the online application process by selecting the relevant option in the drop-down menu available on the Alice platform <https://www.studenti.unipi.it>. They also upload a self-declaration attesting their employment with the public institution, attached to the call for applications.

Candidates declaring their participation as public employees automatically **RENOUCE** the PhD grant, and ranking dispositions specified in art. 5 of the current competition call will be applied. **Once this choice is done it is irrevocable and cannot be modified at a later time.**

The information below is valid for all selection procedures listed above.

ADMISSION REQUIREMENTS (*art 3 of the PhD competition call*)

Master's degree (second-cycle degree pursuant to Ministerial Decrees 270/2004, 509/1999, or pre-509/1999 system) to be awarded **by 31 October 2025: ALL**

or

an equivalent academic qualification pursuant to Ministerial Decree of 9 July 2009, to be awarded **by 31 October 2025.**

If the candidate has not yet obtained the degree, they must attach a transcript of records listing all completed exams and corresponding grades.

Please note: For this purpose, during the online application process, candidates are required to upload a self-declaration concerning the academic degree obtained or to be obtained, in accordance with Presidential Decree No. 445/2000, attached to the call for applications.

Further requirements

Beneficiaries of **"Pegaso" PhD grants** – academic year. 2025/26, funded thorough PR FSE 2021/27 within the framework of **Giovanisì** (www.giovanisi.it), the project of the Tuscany Region for youth empowerment, must **also**:

- be no older than 35 years of age at the time of application for the PhD call (up to and including the day of their 35th birthday);
- demonstrate an adequate knowledge of the English language (at least B2 level), which will be assessed by the examining board during the selection process. Candidates must present a valid B2 English level certificate (at least) prior to enrollment and acceptance of the Pegaso grant.
- declare their willingness to carry out a study and research stay abroad of at least 6 (six) months (12 (twelve) months for recipients of an international grant), and to acknowledge that failure to complete the mandatory mobility period may result in the revocation of the entire scholarship by the Tuscany Region. This declaration is not required for beneficiaries of topic-specific PhD grants for whom no international mobility was foreseen at the time of project submission;

- (only for recipients of PhD research project grants) formally declare their willingness to carry out a training/research experience of at least 3 (three) months in an applied context – such as companies, public research institutions, other public institutions (not universities) – and acknowledge that failure to carry out such experience may result in the revocation of the full scholarship by the Regione Toscana;
- declare their willingness to attend courses on soft skills development, knowledge of the labour market and research environment, and methodologies for data collection, analysis, and management (Data Science), as proposed by the implementing body over the three-year duration of the PhD programme.

SELECTION CRITERIA (*art. 4 of the PhD competition call*)

Curriculum

The *curriculum*, signed and accompanied by a copy of a valid identification document, must be uploaded only during the online application process. The curriculum must include details of the applicant's educational background, professional experience, and research activities. **Candidates are strongly encouraged to submit any documents they consider relevant for the evaluation of their curriculum.**

Candidates must also upload:

- their exam transcripts,
- their MSc thesis (or some of its parts),
- the list of publications,
- other training and/or research experiences in Italy or abroad,
- prizes or awards,
- English language certificates
- Postgraduate diplomas obtained

During the online application process, candidates are required to specify 2 names and contacts (e-mail address and phone number) of professors and scholars of Computer Science, who are available to provide and upload references **by July, 18th 2025 23:59 (Italian time)**, following the instructions that will be sent to them directly by email.

Interview

Through the interview, the admission committee evaluates the candidates' analytical and synthesis skills, their ability to formalize problems, as well as their commitment and study capabilities. The committee verifies that candidates possess both a broad knowledge of computer science theories and applications, and an in-depth understanding of specific topics and methodologies within the field. It also assesses their proficiency in the English language (at a level equivalent to at least B2) and their willingness to spend periods of study or research abroad. Finally, the committee evaluates the scientific relevance of the candidates' research interests, the proposed research project to be carried out during the PhD program, and its consistency with the themes of the doctoral course.

Web conference [SI](#)

Candidates wishing to attend the interview via video conference are required to *upload* the VIDEO Attachment **exclusively during the online application process**. Selection Board will examine any request received after the application deadline (July, 18th 2025), and will decide whether to accept them, considering the technical time required to organise the video conference interview.

Research project

to be illustrated during the interview

The research project, aimed at highlighting the candidate's planning and design skills, must be uploaded during the online application process.

	Minimum grade	Maximum grade
<i>Curriculum</i>	30	40
Candidates who have obtained a score of at least 30 out of 40 points are admitted to the interview.		
<i>Interview</i>	40	60
Eligibility for inclusion in the final ranking list is achieved with a minimum score of 70 out of 100 points.		

EXAM SCHEDULE

Tests will take place in the period **between July, 23rd and August, 1st 2025** and **between August 25th and September, 10th 2025**.

For each one of the selections, test schedule will be published **by July 10th, 2025** on <https://www.unipi.it/bando2025-26/>, including information on the examination venue.

RANKING LIST AND ENROLLMENT

Article 5 of the call for applications outlines:

- the procedures for drawing up the ranking list
- publication date of the ranking list
- procedures and deadlines for enrollment
- procedure and deadlines for reallocating ranking list positions in case of withdrawal or non-enrollment.

INFO ON THE PHD PROGRAMME

Overview and objectives:

<https://www.unipi.it/didattica/corsi/dottorati/scienze-ingegneristiche-ed-informatiche/informatica/>

Website:

<https://dottorato.di.unipi.it/>

PhD Programme regulations:

<https://www.unipi.it/phocadownload/regolamentiallegati/7dottinformatica.pdf>

“PEGASO” GRANTS – EUROPEAN UNION AND REGIONAL PROVISIONS

Article 15 of the Regional Notice states regional notice states that public calls issued by the implementing body for admission to PhD programmes funded under the regional “Pegaso” scheme must include: the logos of the funding bodies (UE, Country, Region – Giovanisi) and PR FSE 2021/27 programme, as well as references to the relevant EU, national and regional legislation, as outlined below.

Disposizioni dell’Unione europea e regionali:

- Regolamento (UE, Euratom) n. 2093/2020 del Consiglio del 17 dicembre 2020 che stabilisce il quadro finanziario pluriennale per il periodo 2021-2027;
- Visto il Regolamento (UE) 2021/1057 del Parlamento europeo e del Consiglio, del 24 giugno 2021, che istituisce il Fondo sociale europeo Plus (FSE+) e che abroga il regolamento (UE) n. 1296/2013;
- Visto il Regolamento (UE) n. 2021/1060 del Parlamento europeo e del Consiglio del 24 giugno 2021, recante le disposizioni comuni applicabili al Fondo europeo di sviluppo regionale, al Fondo sociale europeo Plus, al Fondo di coesione, al Fondo per una transizione giusta, al Fondo europeo per gli affari marittimi, la pesca e l'acquacoltura, e le regole finanziarie applicabili a tali fondi e al Fondo Asilo, migrazione e integrazione, al Fondo Sicurezza interna e allo Strumento di sostegno finanziario per la gestione delle frontiere e la politica dei visti, in particolare l'articolo 23, paragrafo 4;
- Visto il Regolamento (UE) n. 679/2016 del Parlamento europeo e del Consiglio, del 27 aprile 2016, relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali, nonché alla libera circolazione di tali dati e che abroga la direttiva 95/46/CE (regolamento generale sulla protezione dei dati);
- Vista la Decisione di esecuzione della Commissione C(2022)4787 finale del 15 luglio 2022 che approva l'Accordo di Partenariato con la Repubblica Italiana CCI 2021IT16FFPA001, relativo al ciclo di programmazione 2021-2027;
- Richiamata la Decisione della Commissione C(2022) n. 6089 del 19/08/2022 che approva il programma regionale "PR Toscana FSE+ 2021-2027", per il sostegno a titolo del Fondo sociale europeo Plus nell'ambito dell'obiettivo "Investimenti a favore dell'occupazione e della crescita" per la regione Toscana in Italia;
- Richiamata la DGR 1016 del 12/09/22 “Preso d'atto della Decisione della Commissione C(2022) n. 6089 del 19/08/2022 che approva il programma regionale "PR Toscana FSE+ 2021-2027", per il sostegno a titolo del Fondo sociale europeo Plus nell'ambito dell'obiettivo "Investimenti a favore dell'occupazione e della crescita" per la regione Toscana in Italia”;
- Richiamata la DGR 122/2023 e ssmmii con la quale è stato approvato il Provvedimento attuativo del PR FSE + 2021/27;
- Visti i criteri di selezione delle operazioni da ammettere al cofinanziamento del Fondo Sociale Europeo Plus nella programmazione 2021-2027 della Regione Toscana approvati dal Comitato di sorveglianza del Programma il 18/11/2022;
- Vista la Decisione n. 2 del 19 giugno 2023 e ssmmii che approva il Sistema di Gestione e Controllo del PR FSE+ 2021/27;
- Vista la Deliberazione della Giunta Regionale n. 610 del 05/06/2023 che ai sensi dell’Articolo 17 comma 1, della LR 32/2002 ss.mm.ii., approva il “Regolamento (UE) 2021/1060 – PR FSE+ 2021-2027. Manuale per i beneficiari – Disposizioni per la gestione degli interventi oggetto di sovvenzioni a valere sul PR FSE+ 2021-2027”;
- Visto il Programma Regionale di Sviluppo 2021-2025, adottato con Delibera di Giunta Regionale n.1392 del 07/12/2022;
- Visto l’articolo 64 del Regolamento (UE) 2021/1060 e dell’articolo 16 del regolamento (UE) 2021/1057 in materia di ammissibilità delle spese;
- Visto il DP.R. n. 22 del 5/02/2018 recante il “Regolamento sui criteri sull'ammissibilità delle spese per i programmi cofinanziati dai Fondi strutturali di investimento europei (SIE) per il periodo di programmazione 2014/2020” e s.m.i, a cui si fa riferimento nelle more dell’adozione della nuova norma nazionale in materia di ammissibilità delle spese per il periodo 2021-2027;

- Visti la Legge regionale 26 luglio 2002, n. 32 “Testo unico della normativa della Regione Toscana in materia di educazione, istruzione, orientamento, formazione professionale e lavoro.” e ss.mm.ii. e il Decreto del Presidente della Giunta Regionale 8 agosto 2003, n. 47/R e ss.mm.ii., recante "Regolamento di esecuzione della L.R. 26.7.2002, n. 32";
- Visto il D.L. 30 aprile 2019, n. 34 (Misure urgenti di crescita economica e per la risoluzione di specifiche situazioni di crisi), convertito in L. n.58/2019, che prevede, per i soggetti di cui all’art. 35, specifici obblighi di pubblicazione delle informazioni relative a sovvenzioni, sussidi, vantaggi, contributi o aiuti, nei propri siti internet o analoghi portali digitali e nella nota integrativa al bilancio di esercizio e nell'eventuale consolidato;
- Vista la DGR 1321/2022 “Strategia regionale di specializzazione intelligente (S3) per il periodo di programmazione UE 2021/27;
- Vista la DGR 1510/2023 "Strategia di specializzazione intelligente 2021-2027. Piano di Lavoro 2024-25”;
- Dato atto che nell’ambito del PR Toscana FSE+ 2021/27 e nel relativo PAD approvato con DGR 122/23 è ricompresa nell’Asse 2, l’attività 2.f.2. “Corsi di laurea e post laurea realizzati in rete”;
- Richiamata la Delibera di Giunta Regionale n. 74 del 27 gennaio 2025 che approva gli elementi essenziali dell’avviso “PR FSE 2021/27 – Corsi di dottorato realizzati in rete ciclo XLI – Borse Pegaso 2025” destinando euro 6.000.000,00 alla sua attuazione.
- Dato atto che il contributo è soggetto a monitoraggio di spesa e rendicontazione da effettuare secondo le modalità e le scadenze del PR FSE 2021/27;
- Dato atto della somma assegnata alla Regione Toscana come da PR FSE 2021/27, approvato con Decisione della Commissione C(2022) n. 6089 del 19/08/2022, e da Piano attuativo di dettaglio (PAD) del PR FSE 2021/27 adottato con delibera della Giunta n. 122/2023, il relativo accertamento di entrata sarà assunto sulla base di estrazioni periodiche e comunicazione ai singoli settori competenti sul bilancio finanziario gestionale 2025/27;
- Vista la Deliberazione della Giunta Regionale n.1 del 08/01/2025 con cui viene approvato il Documento Tecnico di Accompagnamento al Bilancio di Previsione 2025-2027 e del Bilancio Finanziario Gestionale 2025-2027.
- Dato atto che l’intervento è stato inserito nel cronoprogramma degli interventi da realizzare con il PR FSE 2021/27 nel 2025.